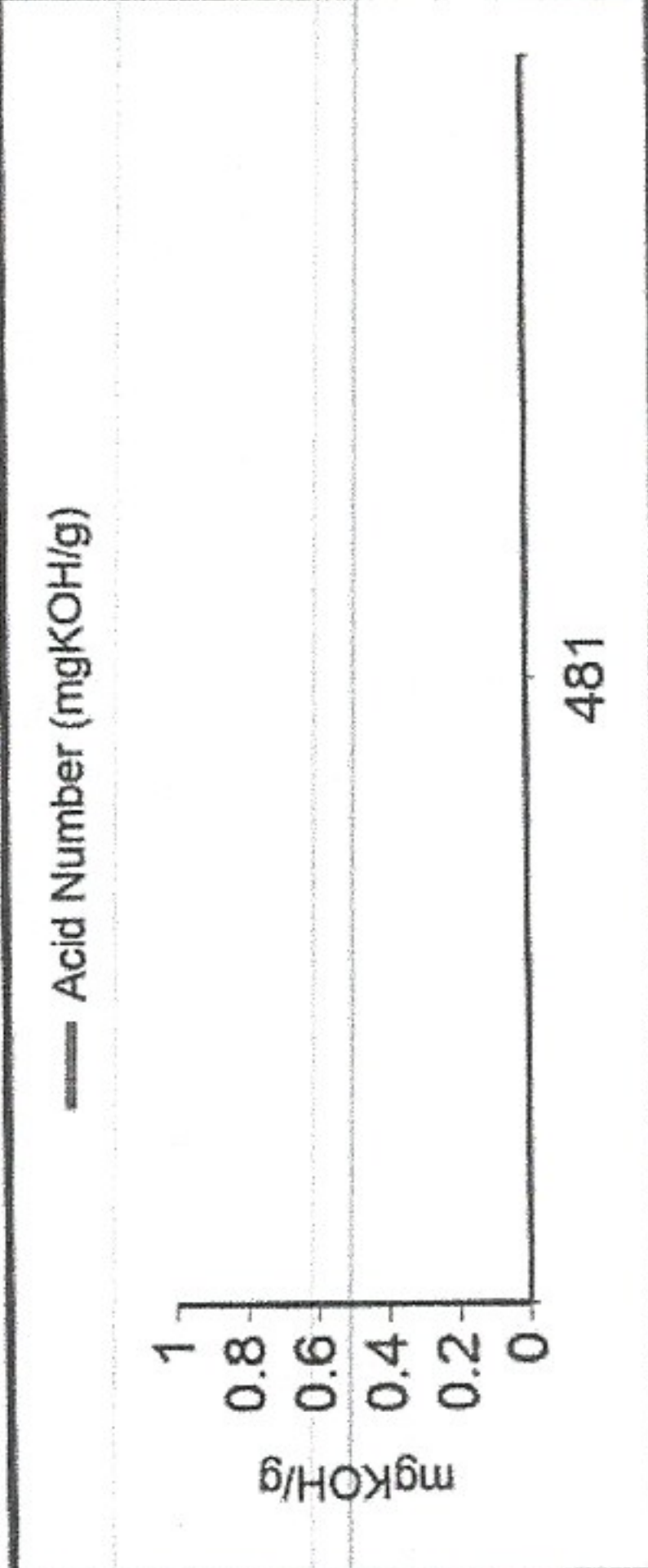
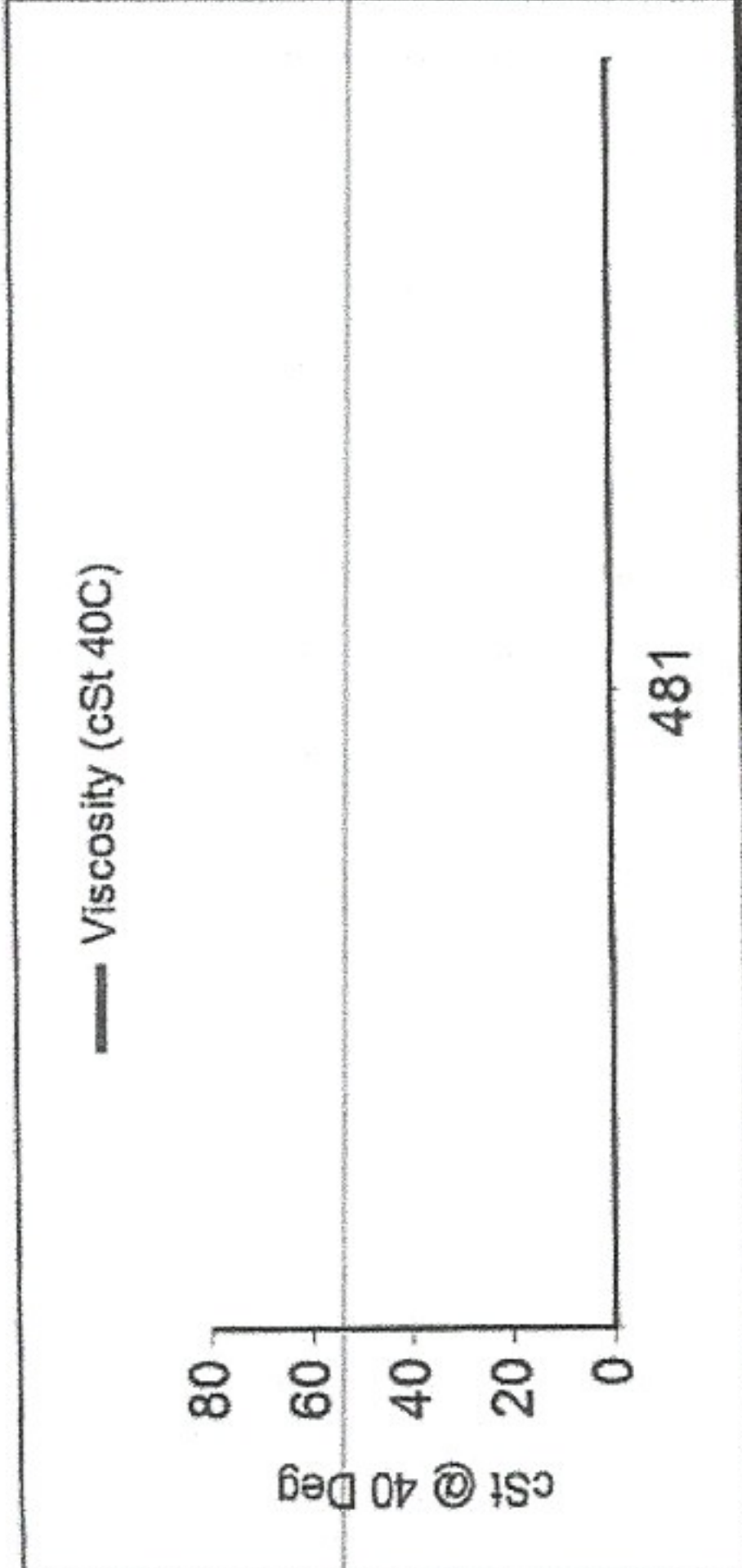
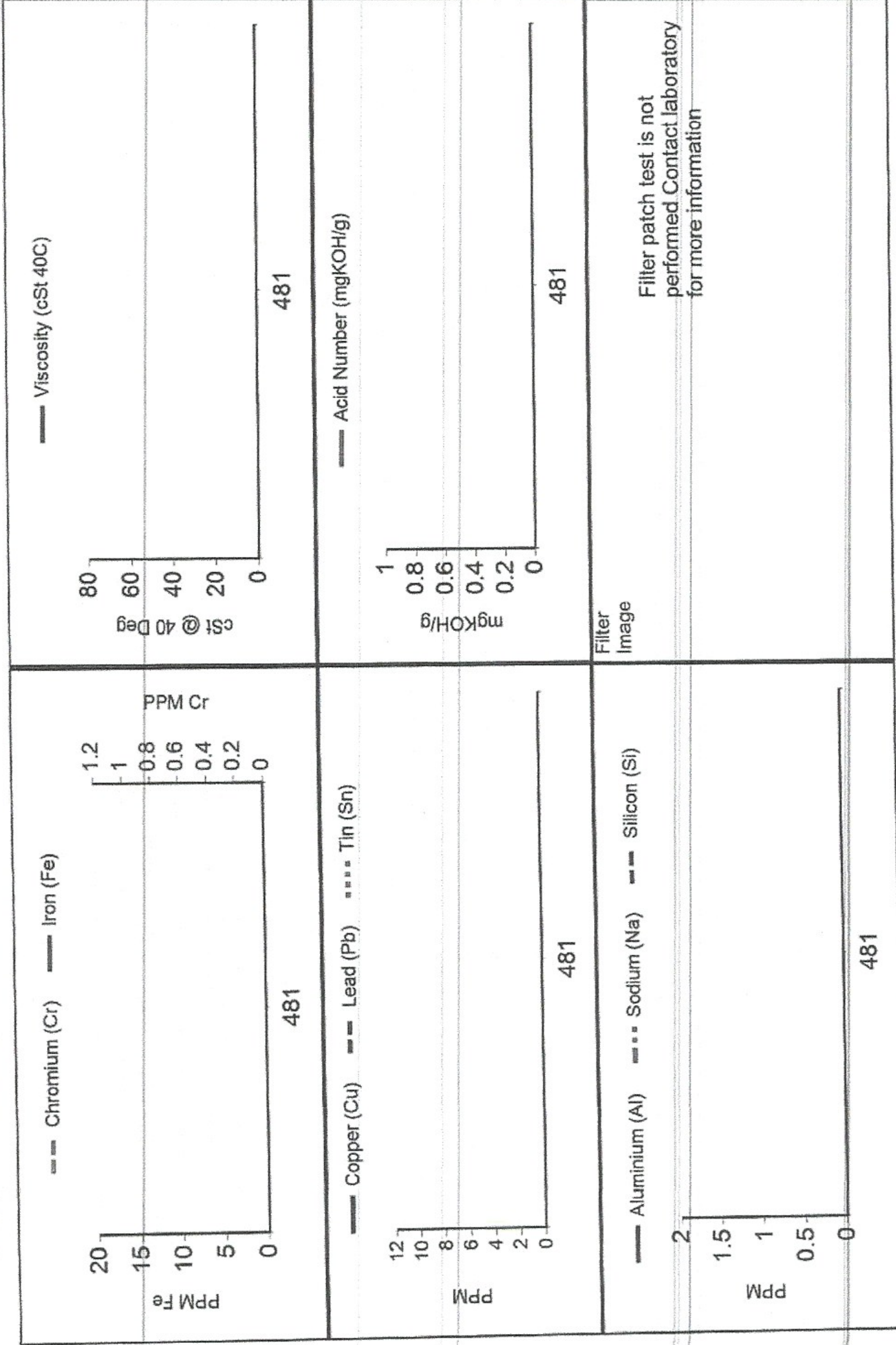


FLUID ANALYSIS

UIN 06B5D30



Filter Image

Filter patch test is not performed Contact laboratory for more information

Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Tribology for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.



0003 v1.5

U.S. Laboratories
Atlanta, Georgia - 420 Valley View, Ohio - 410
5300 Oakbrook Parkway 6180 Halle Dr, Suite D
Building 200 Suite 245 Valley View, OH 44125
Norcross, GA 30093 800.726.5400
800.394.3669

Kansas City, Kansas - 430 Phoenix, Arizona - 440
935 Sunshine Road 3319 West Earl Drive
Kansas City, KS 66115 Phoenix, AZ 85017
800.332.8055 800.445.7930

Portland, Oregon - 401
4943 NW Front Avenue
Portland, OR 97210
800.770.4128

Canadian Laboratories
Burlington, Ontario - 450 Edmonton, Alberta - 402
5036 South Service Rd. 9450 17 Ave NW
Burlington, ON L7L5Y7 Edmonton, AB T6N 1M9
905.332.9559 888.489.0057

Sales & Marketing
Houston, Texas
10450 Standliff Road, Suite 210
Houston, TX 77099
877.835.8437

International Locations

Australia
Brisbane, Perth, Sydney, Muswellbrook
South America
Santiago de Chile, Belo Horizonte, Brazil
New Zealand Wellington
Southeast Asia Kuala Lumpur, Singapore
Europe Prague

| TEST METHODS: | |
|-----------------------------|------------------------------|
| Acid Number: | ASTM D974/D664 (*M) |
| Base Number: | ASTM D4739 (*M) |
| Base Number (Perchloric): | ASTM D2896 (*M) |
| Fuel Dilution by GC: | ASTM D7593 |
| Fuel Dilution Visc/Setafash | In House |
| Fuel Soot ATR/IR: | ASTM D7686 (*M) |
| Soot by FTIR: | ASTM D7844 |
| Glycol: | In House |
| Metals by ICP AES: | ASTM D5185 (*M) |
| Ox, NOx, SOx, FTIR: | ASTM E2412/D7418/D7414 D7415 |
| PQ Index: | ASTM D8120 (*M) |
| Particle Count: | ASTM D7647 (*M) / ISO 4406 |
| Viscosity: | ASTM D445 (*M) / D7279 (*M) |
| Water KF: | D6304 / E203 (*M) |
| Water Crackle: | In House |

*M - Modified Method

FLUID ANALYSIS

UIN 06B5D30

Hydraulic System

Unit No. 1T0333GMLJF326996

Unit:

Make John Deere

Model 333G

Serial No. 1T0333GMLJF326996

Site

Lacaze Land

Compartment:

Name Hydraulic

Make

Model

Serial No.

Capacity:

Customer:

DOGGETT MACH SERVICES LLC

17312 Norwel Dr


Covington LA 70435

USA


DIAGNOSIS

Time on oil not provided with sample. Heavy concentration of water present. Unable to perform Particle Count test due to high water content. Check for source of water entry. Sample form indicates oil changed at time of sampling. Recommend close monitoring.


ANALYST: harold.scarborough




Severe




Severe



Abnormal



Caution



Normal

LEGEND

DATE SAMPLED 24-Jun-19
DATE RECEIVED 27-Jun-19
DATE REPORTED 01-Jul-19

LAB NO. 42021402021

SIF NO. 35094541

TIME ON UNIT Hrs 481

TIME ON OIL Hrs

OIL BRAND John Deere

OIL TYPE Hydrau

OIL GRADE Unknown

OIL ADDED

FILTER Not Applicable

OIL-CHANGED Changed

WO NUMBER I68786

Metals (ppm)

Iron (Fe) 15

Chromium (Cr) <1

Lead (Pb) 2

Copper (Cu) 10

Tin (Sn) <1

Aluminium (Al) <1

Nickel (Ni) <1

Silver (Ag) <1

Titanium (Ti) <1

Vanadium (V) <1

Contaminants (ppm)

Silicon (Si) 2

Sodium (Na) <1

Potassium (K) <1

Water by Karl Fischer %

(E203/D6304) 0.35

Solids (%) 0.1

Additives (ppm)

Magnesium (Mg) <1

Calcium (Ca) 67

Barium (Ba) <1

Phosphorus (P) 536

Zinc (Zn) 726

Molybdenum (Mo) <1

Boron (B) <5

Physical Tests

Viscosity (cSt 40C) 60.9

Physical / Chemical

Acid Number (mgKOH/g) 0.87

Particle Count

ISO 4406 Rating

> 4 Micron (particles/ml)

> 6 Micron (particles/ml)

> 14 Micron (particles/ml)

> 23 Micron (particle/ml)

> 50 Micron (particles/ml)

